



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. James Filippini  
Mr. Douglas Lamb  
Water Division Compliance Branch  
United States Environmental Protection Agency, Region V  
77 West Jackson Boulevard (WC-15J)  
Chicago, Illinois 60604-3590

RECEIVED

SEP 30 2014

September 26, 2014  
PJ/DW

WATER ENFORCEMENT & COMPLIANCE  
ASSURANCE BRANCH, EPA, REGION 5

Subject: Annual Dock Wall Observation and Repair  
Consent Decree – Case No. 2:96-CV-96-RL-1  
ArcelorMittal Burns Harbor LLC

Dear Messrs. Filippini and Lamb:

Attachment 1 is the summary report of the annual dock wall inspection for 2014. This document summarizes the results of the annual dock wall observation that was conducted on August 29, 2014, September 9, 2014 and September 19, 2014 by Weaver Boos Consultants, LLC, contractor to ArcelorMittal Burns Harbor, as required by Paragraph 21 of the subject decree.

During the annual observations, eight (8) locations were found along the dock wall with discernible discharges of flowing water. Notification regarding these findings was made via e-mail to Ms. Susan Prout (EPA Region V, Office of Regional Counsel) by T. E. Kirk on August 29, 2014. There were no additional discernable discharges found during the second or third phases of the inspection.

All of the locations were found in the coffer dam section of the dock wall. The height above the Lake Michigan level and the estimated flow from each location is noted in Attachment 1.

Samples were obtained from all locations and submitted to a contract analytical laboratory for nitrogen-ammonia analysis. The results of these analyses are provided in Attachment 2. The results are also summarized in the Attachment 1 table and used to estimate the amount of ammonia discharged, on a daily basis, from these locations. Digital photographs of each of the locations were also obtained and are provided in Attachment 3.



# ArcelorMittal

Repairs have been contracted and are expected to begin before the end of the month. Due to heavy boat traffic, an estimated date of completion of repairs is not available. Photographs of the locations after repair/sealing will be provided in a separate report.

No one particular cause for the discharges was identified. Because all of the discharges were observed along the coffer dam section of the harbor wall and the nitrogen-ammonia concentrations of most of the discharges are well below the concentration of the groundwater being captured by the dewatering well system (i.e., average of 6.3 mg/L for the previous 12 months), it is surmised that these concrete cellular revetments were discharging accumulated stormwater runoff that had inadvertently seeped through the caps of these structures. Therefore, the source of the water is not groundwater that is adequately being controlled by the dewatering well system. Based on the ammonia concentrations and estimated flow rates summarized in Attachment 1, approximately fifteen one hundredths of a pound per day (0.15 lbs/day) of ammonia was being discharged to the harbor from all 8 locations. Notwithstanding, Burns Harbor has responded as quickly as possible to the identification of the locations in order to timely minimize and/or eliminate any potential impact.

If there are any questions concerning this matter, please contact T. E. Kirk or me at (219) 787-2712.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

R. A. Maciel, Manager  
Environmental Management Department

Attachments

ArcelorMittal Burns Harbor, LLC  
Annual Dock Wall Observation and Repairs  
Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 1 – Summary Report of the Annual dock Wall Inspection

ArcelorMittal Burns Harbor, LLC  
 August 29, September 9 and 19, 2014 Dock Wall Inspection  
 Performed by: Weaver Boos Consultants

ID Number	Height Above Water (feet)	Estimated Flow Rate (Liters/minute)	Estimated Flow (Gal/Min)	Ammonia Concentration* (mg/L)	Ammonia Discharge (Pounds/day)	Date of Repair
14-1	8	0.2	<0.1	0.57	<0.01	TBD
14-2	5	0.8	0.2	2.2	<0.01	TBD
14-3	2.5	4	1.1	0.84	0.01	TBD
14-4	3	3	0.8	0.71	<0.01	TBD
14-5	1	1	0.3	6.1	0.02	TBD
14-6	5	5	1.3	6.1	0.1	TBD
14-7	3	5	1.3	0.46	<0.01	TBD
14-8	4	1	0.3	1.7	<0.01	TBD

**Total Potential Ammonia Discharge (pounds per day) from all locations: 0.15**

\* Results reported are the larger of the sample and duplicate analysis.

ArcelorMittal Burns Harbor, LLC  
Annual Dock Wall Observation and Repairs  
Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 2 – Nitrogen Ammonia Analytical Results



September 8, 2014

Arcelor Mittal USA, Inc.  
250 W US Highway 12  
Burns Harbor, IN 46304-9745

Work Order No.: 14I0017

Re: Ore Dock Wall - East Harbor

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 16 sample(s) on 8/30/2014 8:30:00AM for the analyses presented in the following report as Work Order 14I0017.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Interim Managing Director, at [robert.crookston@microbac.com](mailto:robert.crookston@microbac.com).

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink that reads "Carey Gadzala". The signature is written in a cursive, flowing style.

Carey Gadzala  
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)

**WORK ORDER SAMPLE SUMMARY****Date:** Monday, September 8, 2014

**Client:** Arcelor Mittal USA, Inc.  
**Project:** Ore Dock Wall - East Harbor  
**Lab Order:** 14I0017

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
14I0017-01	14-1		08/29/2014 09:55	8/30/2014 8:30:00AM
14I0017-02	14-1 - Dup		08/29/2014 09:55	8/30/2014 8:30:00AM
14I0017-03	14-2		08/29/2014 10:30	8/30/2014 8:30:00AM
14I0017-04	14-2 - Dup		08/29/2014 10:30	8/30/2014 8:30:00AM
14I0017-05	14-3		08/29/2014 11:00	8/30/2014 8:30:00AM
14I0017-06	14-3 - Dup		08/29/2014 11:00	8/30/2014 8:30:00AM
14I0017-07	14-4		08/29/2014 11:20	8/30/2014 8:30:00AM
14I0017-08	14-4 - Dup		08/29/2014 11:20	8/30/2014 8:30:00AM
14I0017-09	14-5		08/29/2014 11:30	8/30/2014 8:30:00AM
14I0017-10	14-5 - Dup		08/29/2014 11:30	8/30/2014 8:30:00AM
14I0017-11	14-6		08/29/2014 11:45	8/30/2014 8:30:00AM
14I0017-12	14-6 - Dup		08/29/2014 11:45	8/30/2014 8:30:00AM
14I0017-13	14-7		08/29/2014 12:00	8/30/2014 8:30:00AM
14I0017-14	14-7 - Dup		08/29/2014 12:00	8/30/2014 8:30:00AM
14I0017-15	14-8		08/29/2014 12:05	8/30/2014 8:30:00AM
14I0017-16	14-8 - Dup		08/29/2014 12:05	8/30/2014 8:30:00AM

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8:378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-1  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-01  
Sampled: 08/29/2014 9:55  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: EPA 350.1 Rev 2.0				Analyst: GRIEF				
Prep Method: Aqueous Ammonia Distillation				Prep Date/Time: 09/04/2014 12:25				
Nitrogen, Ammonia as N	cg	A	0.57	0.10		mg/L	1	09/04/2014 15:28

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-1 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-02  
Sampled: 08/29/2014 9:55  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0				Analyst: GRIEF	
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation				Prep Date/Time: 09/04/2014 12:25	
Nitrogen, Ammonia (As N)	cg	A	0.57	0.10		mg/L	1	09/04/2014 15:30

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-2  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-03  
Sampled: 08/29/2014 10:30  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 08:36		
Nitrogen, Ammonia (As N)	cg	A	2.2	0.10		mg/L	1	09/05/2014 13:07

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

**Client:** Arcelor Mittal USA, Inc.  
**Client Project:** Ore Dock Wall - East Harbor  
**Client Sample ID:** 14-2 - Dup  
**Sample Description:**  
**Matrix:** Aqueous

**Work Order/ID:** 14I0017-04  
**Sampled:** 08/29/2014 10:30  
**Received:** 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/06/2014 08:36		
Nitrogen, Ammonia (As N)	cg	A	2.2	0.10		mg/L	1	09/05/2014 13:13

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-3  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-05  
Sampled: 08/29/2014 11:00  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0		Analyst: GRIEF			
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation		Prep Date/Time: 09/05/2014 08:35			
Nitrogen, Ammonia (As N)	cg	A	0.84	0.10		mg/L	1	09/05/2014 13:15

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8:378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-3 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-06  
Sampled: 08/29/2014 11:00  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 08:35		
Nitrogen, Ammonia (As N)	cg	A	0.79	0.10		mg/L	1	09/05/2014 13:17

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-4  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-07  
Sampled: 08/29/2014 11:20  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 360.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 08:35		
Nitrogen, Ammonia (As N)	cg	A	0.71	0.10		mg/L	1	09/05/2014 13:19

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-4 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-08  
Sampled: 08/29/2014 11:20  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 08:36		
Nitrogen, Ammonia (As N)	cg	A	0.71	0.10		mg/L	1	09/05/2014 13:21

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-5  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-09  
Sampled: 08/29/2014 11:30  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0		Analyst: GRIEF			
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation		Prep Date/Time: 09/05/2014 08:35			
Nitrogen, Ammonia (As N)	cg	A	6.1	0.10		mg/L	1	09/05/2014 13:26

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-5 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-10  
Sampled: 08/29/2014 11:30  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 08:36		
Nitrogen, Ammonia (As N)	cg	A	6.0	0.10		mg/L	1	09/05/2014 13:28

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-6  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-11  
Sampled: 08/29/2014 11:45  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0				Analyst: GRIEF	
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation				Prep Date/Time: 09/05/2014 08:35	
Nitrogen, Ammonia (As N)	cg	A	0.56	0.10		mg/L	1	09/05/2014 13:34

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-6 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-12  
Sampled: 08/29/2014 11:45  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0		Analyst: GRIEF			
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation		Prep Date/Time: 09/05/2014 08:35			
Nitrogen, Ammonia (As N)	cg	A	0.61	0.10		mg/L	1	09/05/2014 13:36

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-7  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-13  
Sampled: 08/29/2014 12:00  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 08:35		
Nitrogen, Ammonia (As N)	cg	A	0.46	0.10		mg/L	1	09/05/2014 13:38

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8:378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-7 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-14  
Sampled: 08/29/2014 12:00  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: GRIEF		
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation			Prep Date/Time: 09/05/2014 12:00		
Nitrogen, Ammonia (As N)	cg	A	0.45	0.10		mg/L	1	09/05/2014 13:49

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8:378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-8  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-15  
Sampled: 08/29/2014 12:05  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0		Analyst: GRIEF			
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation		Prep Date/Time: 09/05/2014 12:00			
Nitrogen, Ammonia (As N)	cg	A	1.6	0.10		mg/L	1	09/05/2014 13:51

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



## Analytical Results

Date: Monday, September 8, 2014

Client: Arcelor Mittal USA, Inc.  
Client Project: Ore Dock Wall - East Harbor  
Client Sample ID: 14-8 - Dup  
Sample Description:  
Matrix: Aqueous

Work Order/ID: 14I0017-16  
Sampled: 08/29/2014 12:05  
Received: 08/30/2014 8:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0		Analyst: GRIEF			
Nitrogen, Ammonia as N			Prep Method: Aqueous Ammonia Distillation		Prep Date/Time: 09/08/2014 08:35			
Nitrogen, Ammonia (As N)	cg	A	1.7	0.10		mg/L	1	09/08/2014 12:25

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



#### **FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

B = Detected in the associated method Blank at a concentration above the routine RL  
b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL  
b\* = Detected in the associated method Blank at a concentration greater than half the RL  
CFU = Colony forming units  
D = Dilution performed on sample  
DF = Dilution Factor  
g = Gram  
E = Value above quantitation range  
H = Analyte was prepared and/or analyzed outside of the analytical method holding time  
I = Matrix Interference  
J = Analyte concentration detected between RL and MDL (Metals / Organics)  
LOD = Limit of Detection  
m3 = Meters cubed  
MDL = Method Detection Limit  
mg/Kg = Milligrams per Kilogram (ppm)  
mg/L = Milligrams per Liter (ppm)  
NA = Not Analyzed  
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)  
NR = Not Recovered  
R = RPD outside accepted recovery limits  
RL = Reporting Limit  
S = Spike recovery outside recovery limits  
Surr = Surrogate  
U = Undetected  
> = Greater than  
< = Less than  
% = Percent

---

#### **ANALYTE TYPES: (AT)**

A,B = Target Analyte  
I = Internal Standard  
M = Summation Analyte  
S = Surrogate  
T = Tentatively Identified Compound (TIC, concentration estimated)

---

#### **QC SAMPLE IDENTIFICATIONS**

BLK = Method Blank	ICSA = Interference Check Standard "A"
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"
BS = Method Blank Spike	BSD = Method Blank Spike Duplicate
MS = Matrix Spike	MSD = Matrix Spike Duplicate
ICB = Initial Calibration Blank	ICV = Initial Calibration Verification
CCB = Continuing Calibration Blank	CCV = Continuing Calibration Verification
CRL = Client Required Reporting Limit	OPR = Ongoing Precision and Recovery Standard
PDS = Post Digestion Spike	SD = Serial Dilution
QCS = Quality Control Standard	

---

#### **CERTIFICATIONS (Certs)**

*Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.*

- a The American Association for Laboratory Accreditation [A2LA] for Biological Testing, ISO/IEC 17025 (Certificate# 3045.01)
- b The American Association for Laboratory Accreditation [A2LA] for Environmental Department of Defense Testing, ISO/IEC 17025 (Certificate# 3045.02)
- c Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #200064)
- d Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- e Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
- f Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
- g Kansas Department of Health and Environment for the analysis of drinking water, wastewater, and solid hazardous waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Certificate No. E-10397)
- h Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
- i New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab#12006; accreditation #49179)
- j New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab# 12006; accreditation #49386)
- k North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- l Pennsylvania Department of Environmental Protection [NELAP] (Lab# 68-04863)
- m Washington State Department of Ecology in accordance to Ch. 173-50 WAC (lab #C992)
- n Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**Microbac Laboratories, Inc.**

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



## COOLER INSPECTION

Client Name: Arcelor Mittal USA, Inc.

Work Order Number: 1410017

Checklist completed by: 9/2/2014 10:53:00AM James Meyer

Carrier Name: Microbac

Date: Monday, September 8, 2014

Date/Time Received: 08/30/2014 08:30

Received by: James Meyer

Reviewed by: 9/2/2014 CAG

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 3.7° C

After-Hour Arrival?

Yes

☐

No

☒

Shipping container/cooler in good condition?

Yes

☒

No

☐

Not Present

☐

Custody seals intact on shipping container/cooler?

Yes

☐

No

☐

Not Present

☒

Custody seals intact on sample containers?

Yes

☐

No

☐

Not Present

☒

COC present?

Yes

☒

No

☐

COC included sufficient client identification?

Yes

☒

No

☐

COC included sufficient sample collector information?

Yes

☒

No

☐

COC included a sample description?

Yes

☒

No

☐

COC agrees with sample labels?

Yes

☒

No

☐

COC identified the appropriate matrix?

Yes

☒

No

☐

COC included date of collection?

Yes

☒

No

☐

COC included time of collection?

Yes

☒

No

☐

COC identified the appropriate number of containers?

Yes

☒

No

☐

Samples in proper container/bottle?

Yes

☒

No

☐

Sample containers intact?

Yes

☒

No

☐

Sufficient sample volume for indicated test?

Yes

☒

No

☐

All samples received within holding time?

Yes

☒

No

☐

If the samples are preserved, are the preservatives identified?

Yes

☒

No

☐

If No, adjusted by?

COC included the requested analyses?

Yes

☒

No

☐

COC signed when relinquished and received?

Yes

☒

No

☐

Samples received on ice?

Yes

☒

No

☐

Samples properly preserved?

Yes

☒

No

☐

Voa vials for aqueous samples have zero headspace?

Yes

☐

No

☐

No VOA vials submitted

☒

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



Sample ID	Client Sample ID	Comments
14I0017-01	14-1	
14I0017-02	14-1 - Dup	
14I0017-03	14-2	
14I0017-04	14-2 - Dup	
14I0017-05	14-3	
14I0017-06	14-3 - Dup	
14I0017-07	14-4	
14I0017-08	14-4 - Dup	
14I0017-09	14-5	
14I0017-10	14-5 - Dup	
14I0017-11	14-6	
14I0017-12	14-6 - Dup	
14I0017-13	14-7	
14I0017-14	14-7 - Dup	
14I0017-15	14-8	
14I0017-16	14-8 - Dup	

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



Samples Submitted to: ☐ 250 West 84th Drive  
Merrillville, IN 46410  
Tel: 219-769-8378  
Fax: 219-769-1664

☐ 5713 West 85th Street  
Indianapolis, IN 46278  
Tel: 317-872-1375  
Fax: 317-872-1379

# Chain of Custody Record

Number 126036

Instructions on back

Client Name <u>ARCELOR MITTAL ENV.</u>	Project <u>ORE DOCK WALL</u>	Turnaround Time	Report Type
Address <u>250 W. 45 HWY 12</u>	Location <u>EAST HARBOR</u>	<input checked="" type="checkbox"/> Routine (7 working days)	<input checked="" type="checkbox"/> Results Only <input type="checkbox"/> Level II
City, State, Zip <u>BURNS HARBOR IN 46304</u>	PO #	<input type="checkbox"/> RUSH* (notify lab)	<input type="checkbox"/> Level III <input type="checkbox"/> Level III CLP-like
Contact <u>TERI KIRK</u>	Compliance Monitoring? <input checked="" type="checkbox"/> Yes(1) <input type="checkbox"/> No	(needed by)	<input type="checkbox"/> Level IV <input type="checkbox"/> Level IV CLP-like
Telephone # <u>219-787-4643</u>	(1) Agency/Program <u>EPA RCRA</u>		<input type="checkbox"/> EDD

Impiled by (PRINT) STEVE STANFORD Sampler Signature [Signature] Sampler Phone # 574-271-3447

Send Report via ☐ Mail ☐ Telephone ☐ Fax (fax #)                      E-mail (address) Theresa.Kirk@arcelormittal.com

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)  
\*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	Ammonia	For Lab Use Only
14-1	GW	X		N	8-29-14	0955	1	(2)	X	14I0017
14-1 DUP						0955				-01
14-2						1030				-02
14-2 DUP						1030				-03
14-3						1100				-04
14-3 DUP						1100				-05
14-4						1120				-06
14-4 DUP						1120				-07
14-5						1130				-08
14-5 DUP						1130				-09
14-6						1145				-10

Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive	Sample Disposition <input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive
Comments	Relinquished By (signature) <u>[Signature]</u> Date/Time <u>8/29/14 1355</u>
	Relinquished By (signature) <u>[Signature]</u> Date/Time <u>8/30/14</u>
	Relinquished By (signature) <u>[Signature]</u> Date/Time <u>08:30</u>
Sample temperature upon receipt in degrees C = <u>3.7°C</u>	Received By (signature) <u>[Signature]</u> Date/Time <u>8/29/14 1355</u>
	Received By (signature) <u>[Signature]</u> Date/Time <u>8/30/14 07:10</u>
	Received for Lab By (signature) <u>[Signature]</u> Date/Time <u>8/30/14 0830</u>

Page 2 of 2

\* **ArcelorMittal Burns Harbor, LLC.**  
Flat Carbon Steel



**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. James Filippini  
Mr. Douglas Lamb  
Water Division Compliance Branch  
United States Environmental Protection Agency, Region V  
77 West Jackson Boulevard (WC-15J)  
Chicago, Illinois 60604-3590

March 25, 2015  
PJ/DW

Subject: Annual Dock Wall Observation and Repair  
Consent Decree – Case No. 2:96-CV-96-RL-1  
ArcelorMittal Burns Harbor LLC

Reference: Letter, R. A. Maciel to Messrs. Filippini and Lamb, same subject, dated September 26, 2014

Dear Messrs. Filippini and Lamb:

As indicated in the referenced letter, attached are the summary table from the Reference which has been updated to include the dates of repair and photographs of each of the eight (8) locations after repair. Repairs were initiated on October xx, 2014 and were completed on March xx 2015. Repairs were delayed due to weather constraints.

If there are any questions concerning this matter, please contact T. E. Kirk or me at (219) 787-2712.

Very truly yours,

R. A. Maciel, Manager  
Environmental Management Department

Attachments

CC: D. P. Bley

**ArcelorMittal Burns Harbor, LLC.** T +1 219 787 2712  
Environmental Mgmt. Dept. F +1 219 787 4973  
250 W. U.S. Highway 12 www.arcelormittal.com  
Burns Harbor, IN 46304  
USA

**RECEIVED**

**MAR 31 2015**

**WATER ENFORCEMENT & COMPLIANCE  
ASSURANCE BRANCH, EPA, REGION 5**

ArcelorMittal Burns Harbor, LLC  
Annual Dock Wall Observation and Repairs  
Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 1 – Summary Report of the Annual dock Wall Inspection

ArcelorMittal Burns Harbor, LLC  
 August 29, September 9 and 19, 2014 Dock Wall Inspection  
 Performed by: Weaver Boos Consultants

<b>ID Number</b>	<b>Height Above Water (feet)</b>	<b>Estimated Flow Rate (Liters/minute)</b>	<b>Estimated Flow (Gal/Min)</b>	<b>Ammonia Concentration* (mg/L)</b>	<b>Ammonia Discharge (Pounds/day)</b>	<b>Date of Repair</b>
14-1	8	0.2	<0.1	0.57	<0.01	03/15/15
14-2	5	0.8	0.2	2.2	<0.01	03/15/15
14-3	2.5	4	1.1	0.84	0.01	01/24/15
14-4	3	3	0.8	0.71	<0.01	01/26/15
14-5	1	1	0.3	6.1	0.02	01/24/15
14-6	5	5	1.3	6.1	0.1	03/15/15
14-7	3	5	1.3	0.46	<0.01	01/02/15
14-8	4	1	0.3	1.7	<0.01	01/02/15

**Total Potential Ammonia Discharge (pounds per day) from all locations: 0.15**

\* Results reported are the larger of the sample and duplicate analysis.